Client Installation Guide
Version 4.3
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CONSTRUCT SPECTRUM™ AND SDK

Manual Order Number: **SPE430-010WIN**

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TABLE OF CONTENTS

PREFACE

1. INSTALLING THE CLIENT COMPONENTS

Prerequisites 8
Description of Client Components 9
Uninstalling Client Components for Previous Versions 10
Installing the Client Components 11
Configuring the Runtime Component 12
Configuring the Construct Spectrum Web Component 16
Common Post-Installation Problems 17
Dispatch Service 17
Construct Spectrum Add-In 20

PREFACE

This manual describes the installation of the client components of Construct Spectrum and Construct Spectrum SDK. Natural Construct 4.3 must already be installed.

The information in this manual is intended for administrators of the PC environment. You will learn how to install the client components in your client environment.

For information about installing the mainframe components of Construct Spectrum and Construct Spectrum SDK, refer to *Construct Spectrum and SDK Mainframe Installation Guide*.

For information about the capabilities and use of the Spectrum Administration subsystem, refer to *Construct Spectrum Administrator's Guide.*

INSTALLING THE CLIENT COMPONENTS

This chapter describes how to install the client components of Construct Spectrum and Spectrum SDK on the Microsoft Windows or Windows NT operating system. Client components must be installed on each PC that will be running Construct Spectrum or Spectrum applications.

This chapter also describes how to configure the web component of the SDK and the runtime component.

The following topics are covered:

- **Prerequisites**, page 8
- **Description of Client Components**, page 9
- **Uninstalling Client Components for Previous Versions**, page 10
- **Installing the Client Components**, page 11
- **Configuring the Runtime Component**, page 12
- **Configuring the Construct Spectrum Web Component**, page 16
- **Common Post-Installation Problems**, page 17

Prerequisites

This section describes the software and hardware prerequisites for installing Construct Spectrum or Spectrum SDK on the client. Some requirements are product-specific.

- Machine:
  - Pentium 200 or higher, (486 DX minimum)
  - CD-ROM drive
  - 20 MB disk space for Construct Spectrum and Construct Spectrum SDK files
- Operating system:
  - Windows 95 or Windows NT 4.0 (with service pack 3 or later)
- Memory:
  - 16 MB of RAM (Natural Construct and Construct Spectrum)
  - 32 MB of RAM for Construct Spectrum, Client/Server component
  - 64 MB of RAM for the Construct Spectrum/SDK/web component
- Software for Natural Construct and Construct Spectrum:
  - EntireX 4.2.1 (or later)
  - Entire Net-Work Client 2.4.1 or later if not using TCP/IP to communicate with Entire Broker
- Software for Construct Spectrum SDK:
  - Construct Spectrum 4.3.1 or later
  - Natural Construct 4.3.1 or later
  - Entire ACI 2.1.2 or EntireX 4.2.1 or later
  - Entire Net-work Client 2.4.1 or later if not using TCP/IP to communicate with Entire Broker
  - Visual Basic 6.0 (Professional or Enterprise) with Visual Studio Service Pack 3
- To develop web applications:
  - Microsoft Internet Information Server IIS 4.0
  - Microsoft Transaction Server MTS 2.0
  - Microsoft Internet Explorer 4.0 or Netscape Navigator 4.0

Description of Client Components

The client components of Natural Construct, Construct Spectrum, and Spectrum SDK are:

- Construct Spectrum runtime component
  This component contains all the files required to run Spectrum applications developed using Construct Spectrum SDK or other clients.
- Construct Windows interface
  This component provides Natural Construct model wizards with which you can define specifications and generate modules on the client.
- Construct Spectrum SDK, web component
  This component contains the framework components and an Add-In required to generate and develop web applications.
- Construct Spectrum SDK, client/server component
  This component contains the Visual Basic framework components, an Add-In, and several other tools required to develop Construct Spectrum client/server applications.

Uninstalling Client Components for Previous Versions

It is strongly recommended that you remove previous versions of Construct Spectrum and Construct Spectrum SDK from your PC using the Add/Remove Programs function in the Windows Control Panel. The Construct Spectrum uninstall programs remove and unregister Construct Spectrum products from your machine and, optionally, restore previous versions of DLLs, etc. After removing old versions, proceed to reinstall Construct Spectrum 4.3 or Construct Spectrum SDK.

Installing the Client Components

To aid in the installation, check the following points prior to beginning the installation process:

- The destination directory must support long file names.
- If you are installing Construct Spectrum on Windows NT, log on with administrative privileges.
- Ensure you have the appropriate amount of disk space.

Tip: Before installing the components, see the Readme.txt files in the Construct and Spectrum directories on the software CD-ROM.

➢ To begin the install:

1 Insert the software CD-ROM.
The installation process begins.

2 Follow the instructions displayed in the successive windows once the Construct Spectrum Install wizard starts.

Configuring the Runtime Component

Note: If you are using Entire Net-Work 2.4.1., it must be running on your system before you can configure the runtime component.

To configure the runtime component, obtain the following information from your system administrator:

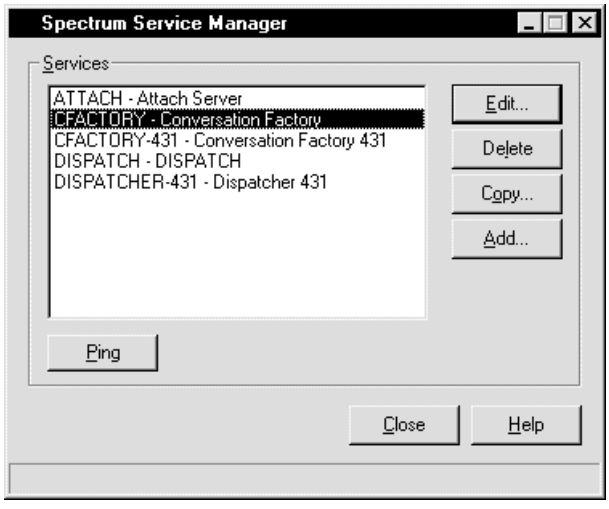
- Broker ID
- Server class
- Server name
- Service name

You require this information as input in the Service Properties dialog of the Spectrum Service Manager.

Note: These settings are defined on the Maintain Services panel in the Spectrum Administration subsystem. Display the definition for the dispatch service. For a description of the Maintain Services panel, see ***Defining Construct Spectrum Services****, page 51, Construct Spectrum Administrator's Guide.*

➢ To configure the Construct Spectrum runtime component on the PC:

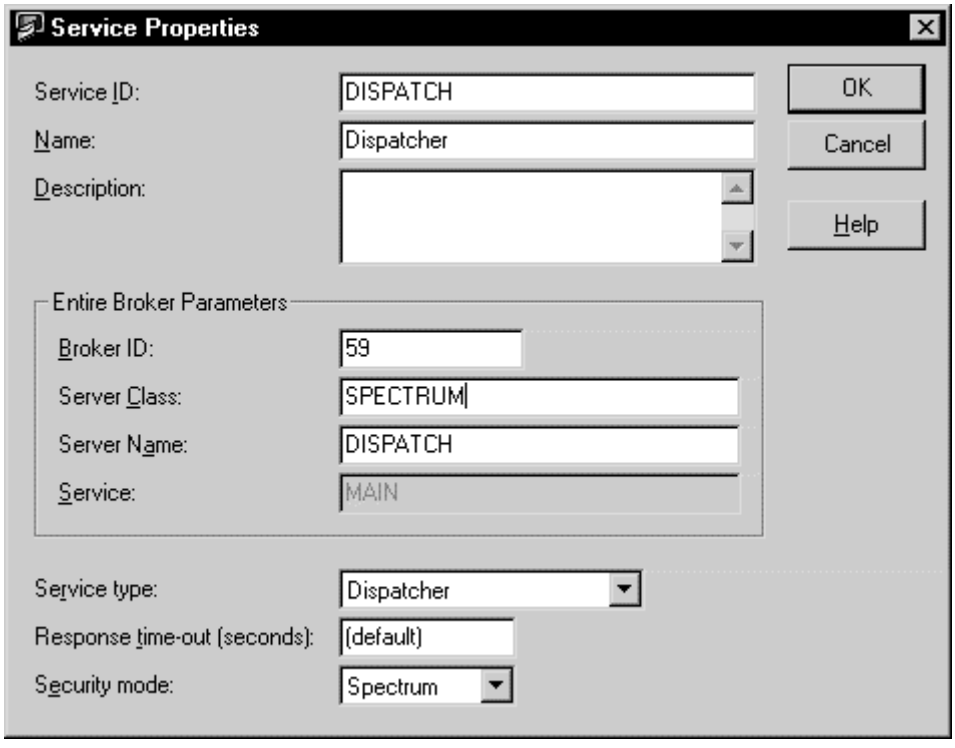
1 Start the Spectrum Service Manager program.
The Spectrum Service Manager dialog is displayed:



Spectrum Service Manager Dialog

2 Select the dispatch service.

3 Click **Edit**.
The Service Properties dialog is displayed:



Service Properties Dialog

4 Change the Broker ID value to match the value displayed on the Maintain Services panel for the dispatch service. For more information on the Construct Spectrum Administration Subsystem, see **Using the Construct Spectrum Administration Subsystem**, page 36, *Construct Spectrum Administrator's Guide*.

```
SPBSMD           ***** Construct Spectrum Administration Subsystem *****    SPBSMD11
Aug 26                       - Maintain Services -                     1 more >
 Action (A,B,C,D,M,N,P)    _ Name: DISPATCH_________________________________
                             Desc: Spectrum Dispatch Server_________________
+- Entire Broker Service Settings ------------------------------------------+
| Broker ID...............: BKR059___________________________                |
| Server class............: SPECTRUM_________________________                |
| Server name.............: DISPATCH_________________________                |
| Service.................: MAIN                                            |
| User ID.................: SPSDISP_                                        |
| Password................:                                                 |
| Attach Service name.....: ATTACH___________________________ * Attach..: _   |
+-----------------------------------------------------------------------------+
+- Service Start Parameters -------------------------------------------------+
|> TRANSACTION=NATBTCHR,                                                     |
|> NATPARM='FNAT=(100,200) ,PROFILE=SYSSPEC,STACK=(LOGON SYSSPEC,MYUSER,MYPWD|
|> ;START)'                                                                  |
| Service start routine...: SUBTASKB *       Source SYSSPEC  Object SYSSPEC  |
+-----------------------------------------------------------------------------+
Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
confm help  retrn quit        flip  pref                    left  right main
```

Maintain Services Panel

5 Click **OK** to save the service properties.
The Spectrum Service Manager dialog is redisplayed.

6 Click **Ping** to test communication between the PC and the dispatch service.
The Ping command sends a request to the dispatch service. If the communication path is working, the "PING of Service DISPATCH was successful" message is displayed on the status bar. If the communication path is not working, see **Common Post-Installation Problems**, page 17.

When the ping operation completes successfully, the installation and configuration procedures are completed.

Configuring the Construct Spectrum Web Component

To configure the web component, obtain the following information regarding your Natural environment from your system administrator:

- Steplib chain
- DBID and FNR of your FUSER, FNAT, FDIC, FSPE1, and FSPE2 libraries

Use the Configuration Editor to set your environmental and profile settings. For more information on how to access and use the Configuration Editor, see **The Configuration Editor**, page 60, *Construct Spectrum Programmer's Guide*.

Common Post-Installation Problems

This section describes some of the common problems you may encounter after installing the client components of Construct Spectrum.

Dispatch Service

The following messages may be displayed when you attempt to ping the dispatch service. Each message is listed with a description of the problem and a solution.

```
SPE5500 - Unable to load a dynamic link library (library-name) required
by Spectrum. The following error occurred: error-message.
```

Description:	The Entire Broker stub (which is included in Entire ACI or EntireX) was not installed correctly on the PC.
Solution:	Ensure that the Entire Broker stub is installed and that its directory, and any directories it depends on, are in the Windows file search path (the PATH statement).

```
ETB02150148 - EntireX Broker not active.
```

Description: This error may occur during one of the following situations:

- The Entire Net-Work Kernel is not running.
- The Kernel is running, but the Entire Broker node is unreachable.
- The Entire Broker node ID is incorrect.
- DLLs required by the broker stub or the Entire Net-Work client are not in the Windows path.
- There is a communication problem between the PC and the mainframe.

Note: *By default, the installation program for Entire Net-Work 2.4.1 does not add the ADALNK directory to the Windows file search path.*

Solution: Depending on your situation, ensure that:

- The Entire Net-Work Kernel is running.
- The Entire Broker node is active (use the Entire Net-Work Console program).
- The broker ID matches the broker ID in the Entire Broker attribute file and the dispatch service definition (in the Spectrum Administration subsystem).
- The root directory for Entire Net-Work 2.4.1 is in the Windows path, as well as the ADALNK directory (see the read-me file for Entire Net-Work 2.4.1).

```
ETB00070007 - Service not registered.
```

Description: This error may occur during one of the following situations:

- The dispatch service is not running on the mainframe.
- The dispatch service is running on the mainframe, but the PC is using a different server class/server name/service combination.
- The dispatch service is not linked to an attach service that is running.

Solution: Do one of the following:

- If the dispatch service is not running, initiate it or initiate the attach service that starts the dispatcher.
- If the dispatch service is running, ensure that the server class/server name/service combination is the same.

Construct Spectrum Add-In

The following messages may be displayed when you run Visual Basic and attempt to access the Construct Spectrum Add-In. Each message is listed with a description of the problem and a solution.

```
Construct Spectrum Visual Basic Add-In could not be loaded. Remove it
from the list of available Add-Ins?
```

Description: This message may appear after you run the Microsoft RegClean utility to clean up the Windows registry. Some versions of RegClean remove entries for the Spectrum Add-In.

Solution: Answer "No". In an MS DOS dialog, issue the following command from the directory in which you installed Construct Spectrum:

```
regsvr32 cstaddin6
```

This command restores the registry entries for the Spectrum Add-In. You can now use the Visual Basic Add-In Manager to re-enable the Construct Spectrum Add-In.

Note: You can download the latest version of RegClean from the Microsoft web site: http://support.microsoft.com/support. Use Regclean.exe as the keyword to search for and select the ***Specific driver or downloadable file*** *option.*

When you attempt to access the Construct Spectrum Add-In, it does not appear in the list of available Add-Ins in the Visual Basic Add-In Manager.

Description: Visual Basic removed the Spectrum Add-In from the list of available Add-Ins.

Solution: Edit the VBADDINS.INI file in the Windows directory (usually C:\WINDOWS or C:\WINNT) and add the following line to the [Add-In32] section:

```
ConstructAddIn5.Connector=0
```

Save the VBADDINS.INI file and display the Visual Basic Add-In Manager. The Construct Spectrum Add-In appears in the list.